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	Application No.	Applicant(s)	
	10/722,431	KONDO, TAKAYUKI	I
Notice of Allowability	Examiner	Art Unit	
	Rhonda S. Peace	2874	
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this application or other appropriate communication IGHTS. This application is subject to	olication. If not include will be mailed in due	ed course. THIS
1. This communication is responsive to the amendment filed	<u>1/17/2007</u> .		
2. The allowed claim(s) is/are <u>3-6,8,9,12-16,24 and 25</u> .			
3. Acknowledgment is made of a claim for foreign priority una a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	e been received. e been received in Application No cuments have been received in this of	national stage applicat	
4. A SUBSTITUTE OATH OR DECLARATION must be subminformal PATENT APPLICATION (PTO-152) which give			OTICE OF
 CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner' Paper No./Mail Date 	son's Patent Drawing Review(PTO-		
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			back) of
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 			ote the
Attachment(s)			
1. Notice of References Cited (PTO-892)	5. Notice of Informal P		
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	 Interview Summary Paper No./Mail Dat 	e	
Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	7. 🗌 Examiner's Amendn	nent/Comment	
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. Examiner's Stateme	nt of Reasons for Allo	wance ~3/9/07
MICHELLE CONNELLY-CUSHWA Rhonda S. Peace Examiner, Art Unit 2874			

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DETAILED ACTION

Allowable Subject Matter

Claims 3-6, 8, 9, 12-16, 24, and 25 are allowed.

The following is an examiner's statement of reasons for allowance: The applicable prior art does not disclose, or reasonably suggests, an optical interconnection circuit comprising an integrated circuit chip upon which first and second circuit blocks which are optically and electrically connected, as well as first and second waveguides are provided, wherein the first circuit block includes first and second light emitting elements which respectively emit first and second lights (the wavelength of the first light being different from the wavelength of the second light), and the second circuit block includes third and fourth light receiving elements, where the third light receiving element receives the second light, and the first waveguide optically connects the first light emitting element and the third light receiving element, and the second waveguide optically connects the second light emitting element and the fourth light receiving element, and further includes a common light reflecting frame that reflects the first and second lights.

Moreover, the applicable prior art does not disclose, or reasonably suggest, an optical interconnection circuit comprising an integrated circuit chip upon which first and second circuit blocks, as well as first and second waveguides are provided, wherein the first circuit block includes first and second light emitting elements which respectively emit first and second lights (the wavelength of the first light being different from the wavelength of the second light), and the second circuit block includes third and fourth

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light receiving elements, where the third light receiving element receives the first light and the fourth light receiving element receives the second light, and the first waveguide optically connects the first light emitting element and the third light receiving element and detours around the third circuit block, and the second waveguide optically connects the second light emitting element and the fourth light receiving element, and further includes a common light reflecting frame that reflects the first and second lights.

Worley (US 6393183), considered to be the closest piece of art to the structural limitations of the current invention, is concerned with optically coupling two circuit blocks that must remain electrically isolated from one another. Therefore, there is no disclosure or motivation to electrically connect the circuit blocks, as is called for in claim 16 of the current invention. In addition, in all embodiments of Worley, the waveguides are either routed on the top surface of the blocks, suspended over the blocks, or travels through the blocks. Therefore, there is no teaching or motivation to suggest routing a waveguide around a third block, as is called for in claim 25 of the current invention.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Response to Arguments

Applicant's arguments, see page 6, filed 1/17/2007, with respect to the rejection of claims 3, 4, 6, 8, 12-16, and 24 under 35 U.S.C. §103(a) have been fully considered

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and are persuasive. The rejection of claims 3, 4, 6, 8, 12-16, and 24 has been withdrawn.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rhonda S. Peace whose telephone number is (571) 272-8580. The examiner can normally be reached on M-F (8-5).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rodney Bovernick can be reached on (571) 272- 2344. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Khindel Place 3/9/07 Rhonda S. Peace

Examiner Art Unit 2874 MR. Connelly-Cushwa MICHELLE CONNELLY-CUSHWA PRIMARY EXAMINER

3/14/07